

Appl. No. : 10/770,712  
Filed : February 3, 2004

### REMARKS

In response to the Notice to File Corrected Application Papers mailed on May 11, 2004, a sequence listing is being submitted herewith. Further, the specification has been amended to add the sequence identification numbers to each nucleic acid sequence or amino acid sequence. Paragraphs 68, 78, 122, and 136 have been amended to add sequence identification numbers.

Additionally, Figure 5 has been amended to add sequence identification numbers 1-3. The figure description of Figure 5 (Paragraph 15) has also been amended to list the sequence identification numbers. No new matter is being added by this amendment.

The Examiner also requested submission of replacement drawings for Figures 7-12. Accordingly, Figures 7-12 of publication-quality are submitted herewith.

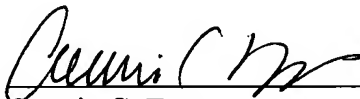
### Conclusion

Should there be any questions concerning this application, the Examiner is invited to contact the undersigned at the telephone number appearing below.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: July 1, 2004

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# Dipeptidyl Peptidase IV during Intestinal Differentiation

SEQ ID NO:1  
SEQ ID NO:2  
SEQ ID NO:3

10 20 30 40 50 60 70 80 90 100  
MPPRRLVGLGAAALVLTITVYVLLKSGDPAFADSRREYLYDYLNKYLKLYELRNISGHELYTKQNNILVFNAGNSVTLNASTDELCH  
MPPRRLVGLGAAALVLTITVYVLLKSGDPAFADSRREYLYDYLNKYLKLYELRNISGHELYTKQNNILVFNAGNSVTLNASTDELCH  
MPPRRLVGLGAAALVLTITVYVLLKSGDPAFADSRREYLYDYLNKYLKLYELRNISGHELYTKQNNILVFNAGNSVTLNASTDELCH  
110 120 130 140 150 160 170 180 190 200  
SNDY-SISPDGPTLLKTHYKQWRSSTASDYIDLNKQLTKERIPNNTQVTSVGHKALVNNNDIVKIEPHLPASRIITWCKEDIIHQIT  
SISDY-SISPDGPTLLKTHYKQWRSSTASDYIDLNKQLTKERIPNNTQVTSVGHKALVNNNDIVKIEPHLPASRIITWCKEDIIHQIT  
SISDY-SISPDGPTLLKTHYKQWRSSTASDYIDLNKQLTKERIPNNTQVTSVGHKALVNNNDIVKIEPHLPASRIITWCKEDIIHQIT  
210 220 230 240 250 260 270 280 290 300  
DNYENHVSALTSAIINBSPHGTALYAOFNDEVPFLINISFYSDSBLQEPKXVWPYPKAGAVHPVAKFTVNHDSLSVTHALSIOITAPASHLIGDH  
DNYENHVSALTSAIINBSPHGTALYAOFNDEVPFLINISFYSDSBLQEPKXVWPYPKAGAVHPVAKFTVNHDSLSVTHALSIOITAPASHLIGDH  
DNYENHVSALTSAIINBSPHGTALYAOFNDEVPFLINISFYSDSBLQEPKXVWPYPKAGAVHPVAKFTVNHDSLSVTHALSIOITAPASHLIGDH  
310 320 330 340 350 360 370 380 390 400  
LCDVNAATQERISLQMLRIQKSYNDICDYDESSEGRNCLVARGHIEHSTGQVGRFTRPSEPHFTIDGNBPKLISNEGRHICVYQIDKND---CTP  
LCDVNAATQERISLQMLRIQKSYNDICDYDESSEGRNCLVARGHIEHSTGQVGRFTRPSEPHFTIDGNBPKLISNEGRHICVYQIDKND---CTP  
LCDVNAATQERISLQMLRIQKSYNDICDYDESSEGRNCLVARGHIEHSTGQVGRFTRPSEPHFTIDGNBPKLISNEGRHICVYQIDKND---CTP  
410 420 430 440 450 460 470 480 490 500  
ITKGEHEVYIGTEALTSDDIYYSISHEKXKQAPGGRNLYKIQLSDYTKYTCLSCEINPERCQYTSVSIKHAITYQDRCSGCPGLYTLNBSVNDKGLAYED  
ITKGEHEVYIGTEALTSDDIYYSISHEKXKQAPGGRNLYKIQLSDYTKYTCLSCEINPERCQYTSVSIKHAITYQDRCSGCPGLYTLNBSVNDKGLAYED  
ITKGEHEVYIGTEALTSDDIYYSISHEKXKQAPGGRNLYKIQLSDYTKYTCLSCEINPERCQYTSVSIKHAITYQDRCSGCPGLYTLNBSVNDKGLAYED  
510 520 530 540 550 560 570 580 590 600  
NSALDKMLQVQNP SKKLDPIILNZZKFNQMLP PHEFDKSKKPLLDVYAGPCSOEADIVFRRLNMAITYLASTENIIVASFDGRGSGYQGDKINHALNR  
NSALDKMLQVQNP SKKLDPIILNZZKFNQMLP PHEFDKSKKPLLDVYAGPCSOEADIVFRRLNMAITYLASTENIIVASFDGRGSGYQGDKINHALNR  
NSALDKMLQVQNP SKKLDPIILNZZKFNQMLP PHEFDKSKKPLLDVYAGPCSOEADIVFRRLNMAITYLASTENIIVASFDGRGSGYQGDKINHALNR  
610 620 630 640 650 660 670 680 690 700  
RLGEFEVEDQIEAARQF SKMGFYDNKRIALINGNSYGGIVTSNVLGSGSGVTEKCGIAVAPVSRNNEYTESVYTERYNGLPPEEDNLDHNRNASTVMSRAENFK  
RLGEFEVEDQIEAARQF SKMGFYDNKRIALINGNSYGGIVTSNVLGSGSGVTEKCGIAVAPVSRNNEYTESVYTERYNGLPPEEDNLDHNRNASTVMSRAENFK  
RLGEFEVEDQIEAARQF SKMGFYDNKRIALINGNSYGGIVTSNVLGSGSGVTEKCGIAVAPVSRNNEYTESVYTERYNGLPPEEDNLDHNRNASTVMSRAENFK  
710 720 730 740 750 760 770  
QVEYLLHSGADDDNVRHQSAQISALVYDVGVDFQAMRYTJDEDHGIASSSTAHOHITYTHMSHPTKQCPSLP  
QVEYLLHSGADDDNVRHQSAQISALVYDVGVDFQAMRYTJDEDHGIASSSTAHOHITYTHMSHPTKQCPSLP  
QVEYLLHSGADDDNVRHQSAQISALVYDVGVDFQAMRYTJDEDHGIASSSTAHOHITYTHMSHPTKQCPSLP

FIGURE 5

